

LOREM IPSUM

Book Title

Dolor Set Amet

Chapter 1

Company Report

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Introduction

In this unit of maths, I'm going to research a company and make a report that tell people is it a good and safe company that can join for. My company is Costco, Costco is a big company that in U.S.A. In this task, I'm going to gained the findings, book value, profits, dividends. Moreover I'll also list out the company's income and sales, also using Arithmetic Progression and Geometric Progression to show that is the company next few years the profits will increase in the further. In this assessment we will assessed on different criterions which's Criterion A, B, C and D. First i'll using my company's data of income in each year, than using Geometric Progression and Arithmetic Progression to see is it the company's income is increased or not. I'll try my best to show that Costco is a good company or not.



Introduction

COMPANY DATA

income:

2007	2008	2009	2010	2011
1083	1283	1086	1303	1462

common Difference

d= 200, -197, 217, 159

379/4

d= 94.75

Ratio:

1462/1303=1.12

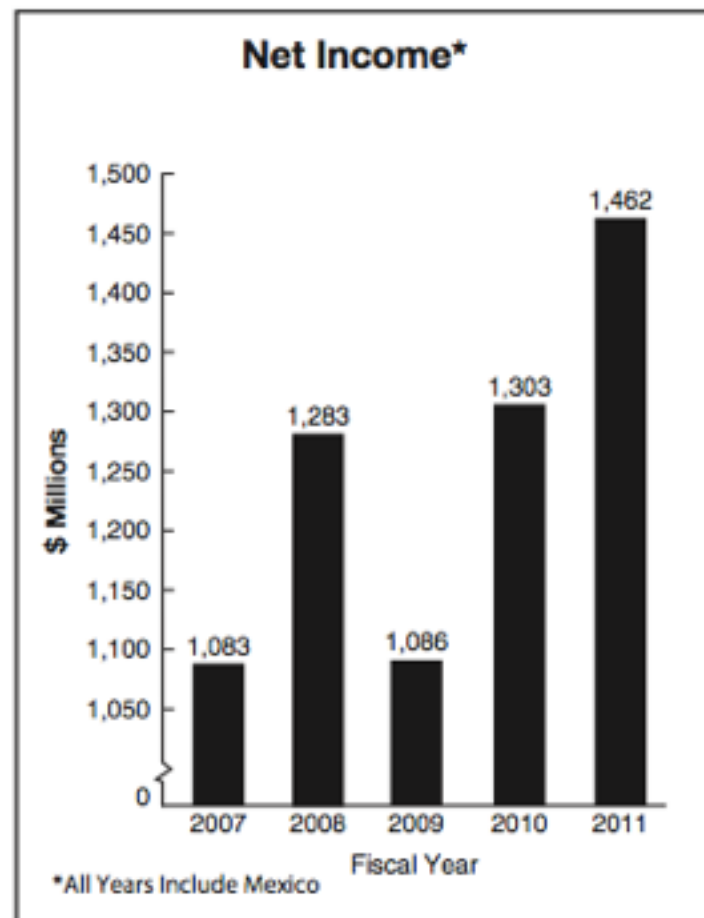
1303/1086=1.19

1086/1283=0.84

1283/1083=1.18

=4.33/4

=1.08



Arithmetic Progression

$$T1=1083+(1-1)94.75$$

$$=1083+0$$

$$=1083$$

$$T2=1283+(2-1) 94.75$$

$$1283+ 94.75$$

$$=1377.75$$

$$T3=1086+(3-1) 94.75$$

$$1086+189.5$$

$$=1275.5$$

$$T4=1303+(4-1) 94.75$$

$$=1303+284.25$$

$$=1587.25$$

$$T5=1462+(5-1) 94.75$$

$$1462+379$$

$$=1841$$

Geometric Progression

$$T1=1083(1.12)^{(1-1)}$$

$$1083(1.12)^{(0)}$$

$$=1083$$

$$T2=1283(1.19)^{(2-1)}$$

$$=1283(1.19)$$

$$=1526.77$$

$$T3=1086(0.84)^{(3-1)}$$

$$=1086(0.84)^{(2)}$$

$$=766.28$$

$$T4=1303(1.18)^{(4-1)}$$

$$=1303(1.18)^{(3)}$$

$$1303(1.64)$$

$$=2140.87$$

$$T5=1462(1.18)^{(5-1)}$$

$$=1462(1.93)$$

$$=2834.49$$

SUM 2013-2019

2012=T6

$$T6=1083+(6-1)94.75$$

$$=1083+473.75$$

$$=1556.75$$

2013=T7

$$T7=1083+(7-1)94.75$$

$$1083+568.5$$

$$1651.5$$

2014=T8

$$T8=1083+(8-1)94.75$$

$$=1083+663.25$$

$$=1746.25$$

2015=T9

$$T9=1083+(10-1)94.75$$

$$=1083+852.75$$

$$1935.75$$

2016=T10

$$T10=1083+(11-1)94.75$$

$$=1083+947.5$$

$$2030.5$$

2017=T11

$$T11=1083+(12-1)94.75$$

$$1083+1042.25$$

$$=2125.25$$

2018=T12

$$T12=1083+(13-1)94.75$$

$$=1083+1137$$

$$=2220$$

2019=T13

$$T13=1083+(14-1)94.75$$

$$=1083+1231.75$$

$$=2314.75$$

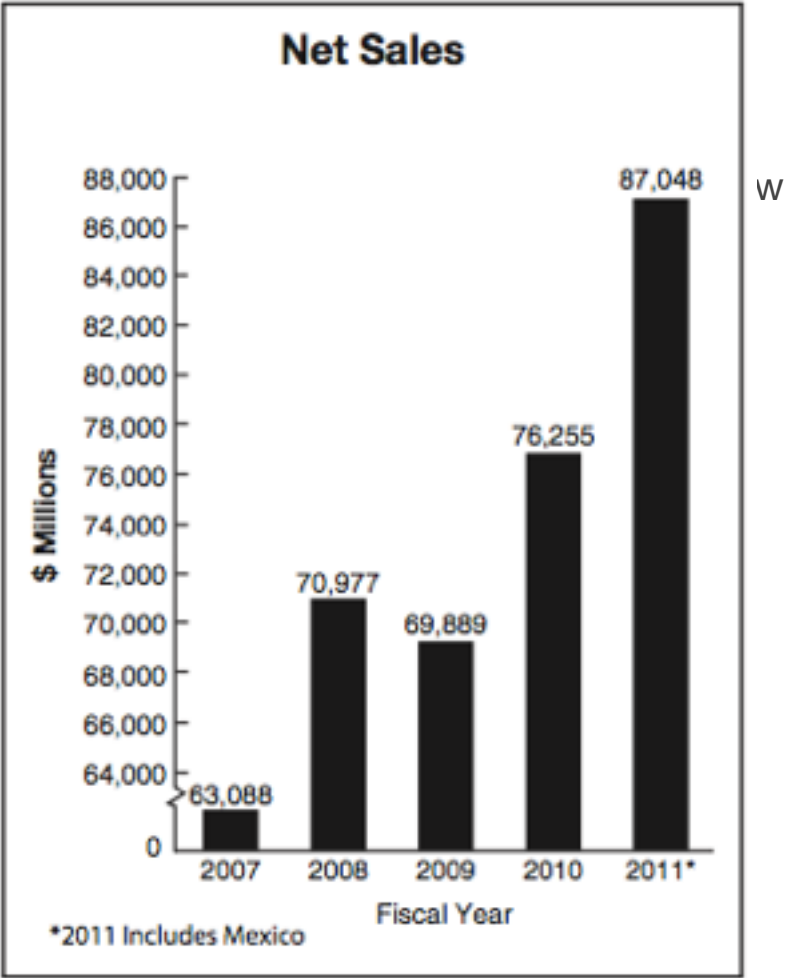
Net sales and Business Members

2007	2008	2009	2010	2011
63	70	69	76	87

T1=63
d= 7, -1, 7, 11
24/4
=6

2012=T6
T6= 63+(6-1)6
=63+30
=93

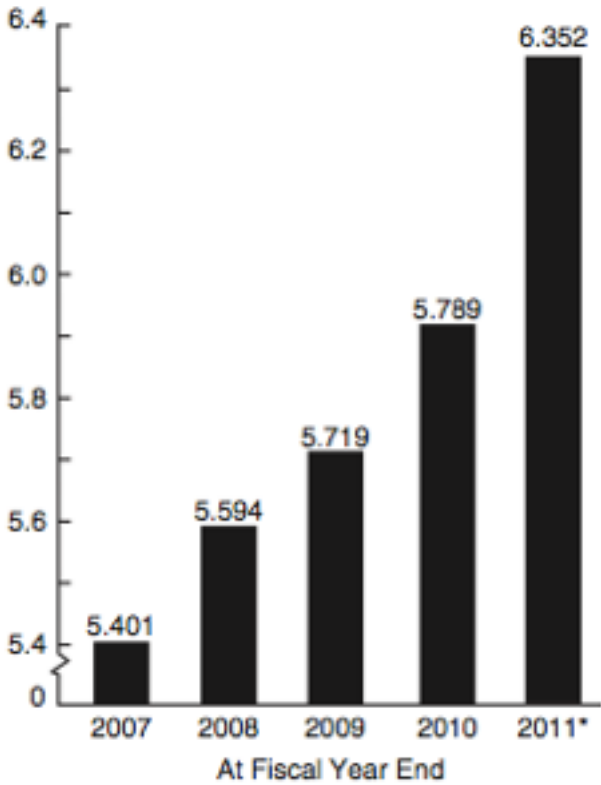
2013=T7
T7= 70+(7-1)6
=70+36
106



$d = 193 + 125 + 70 + 663 / 4$
 $d = 553.75$

2013=T6
 $T6 = 5401 + (6-1)553.75$
 $T6 = 5401 + 2768.75$
 $T6 = 8169.75$

Business Members



2007	2008	2009	2010	2011
5401	5594	5719	5789	6352

Percentage Error

General Form

$$Y = ax + b$$

$$A = 77.8$$

$$B = 543.2$$

Prediction of 2007

$$Y = 77.8 \times 7 + 543.2$$

$$Y = 1087.8$$

Prediction of 2008

$$Y = 77.8 \times 8 + 543.2$$

$$Y = 1165.6$$

Prediction of 2009

$$Y = 77.8 \times 9 + 543.2$$

$$Y = 1243.4$$

Prediction of 2010

$$Y = 77.8 \times 10 + 543.2$$

$$Y = 1321.2$$

Prediction of 2011

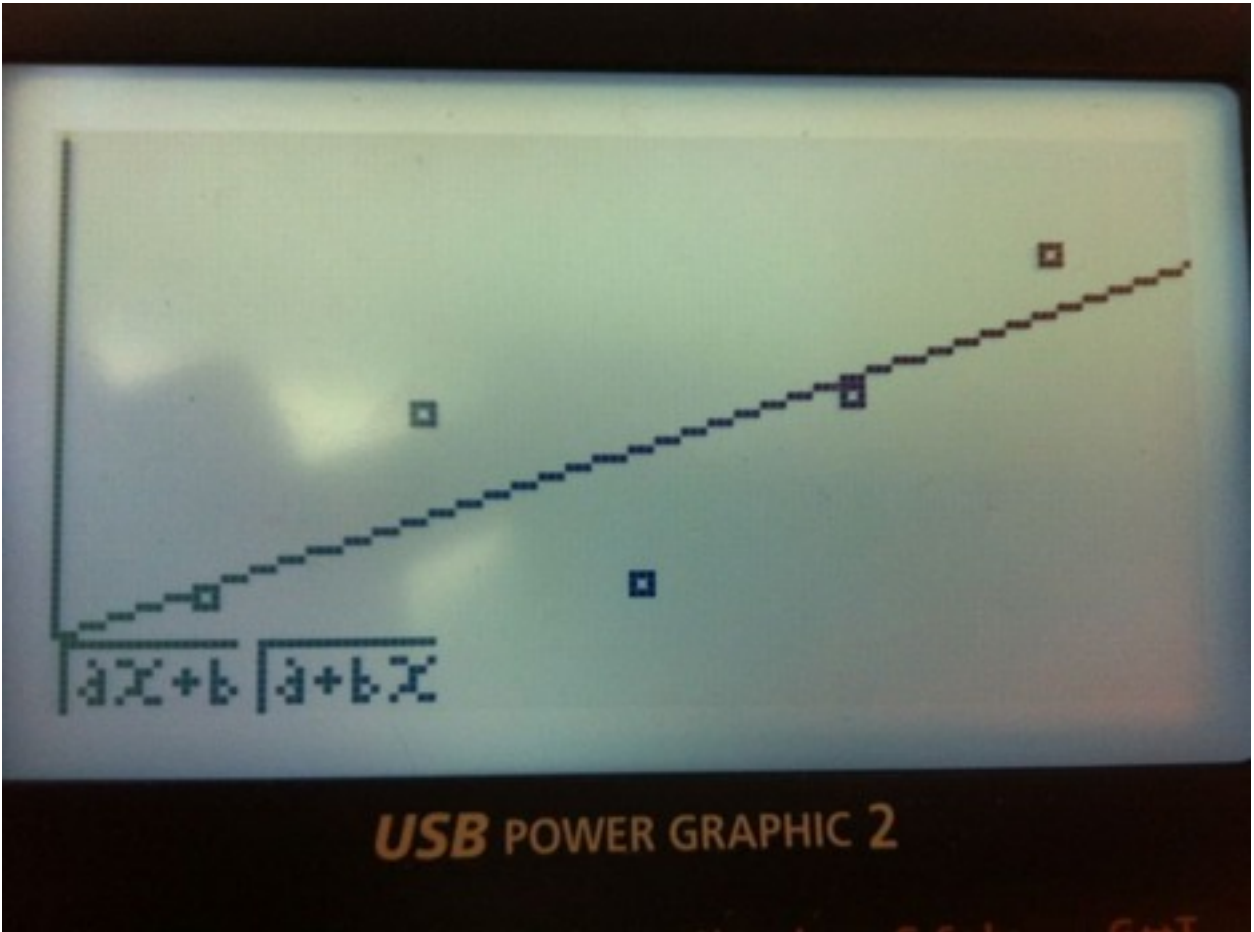
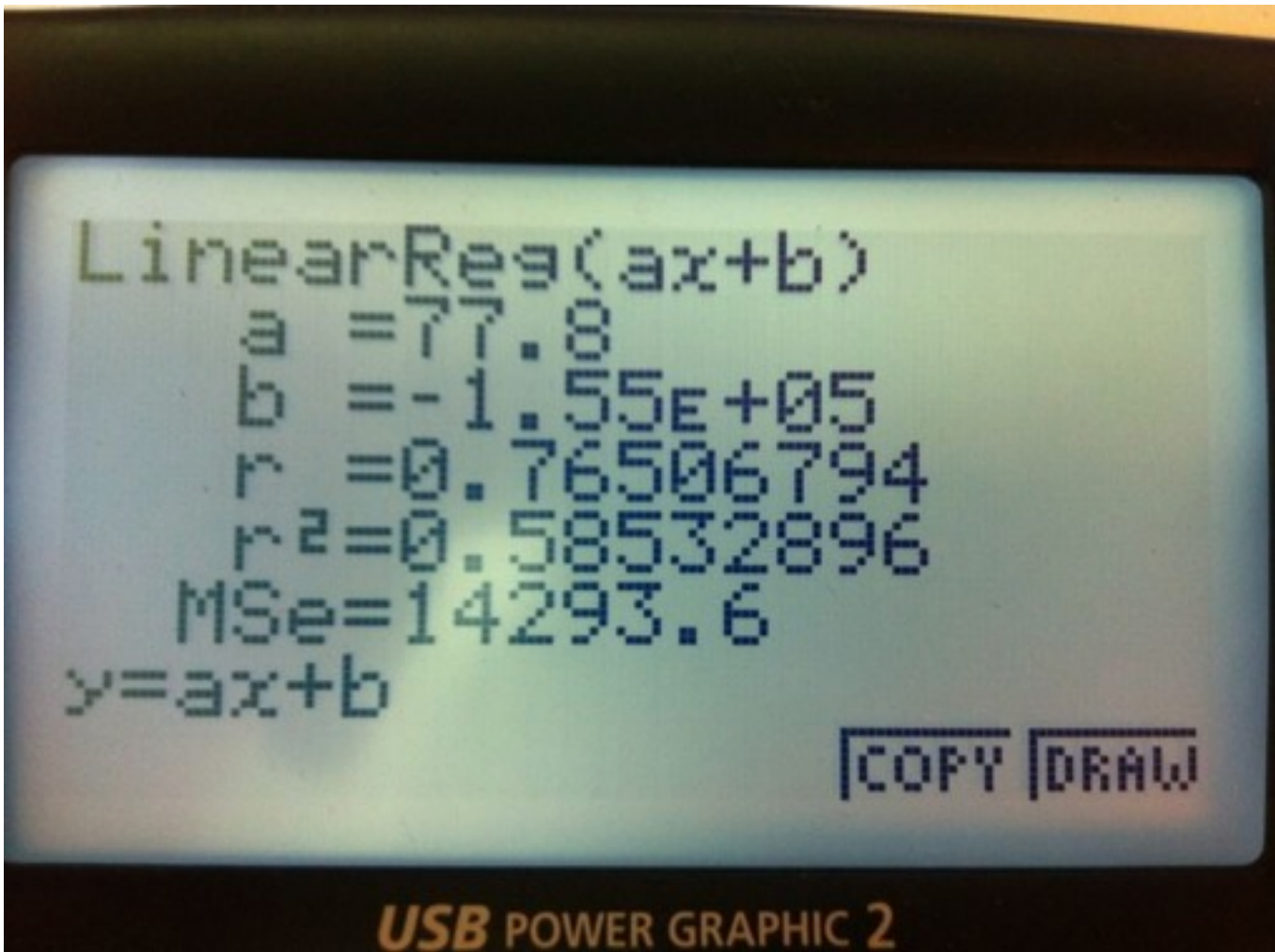
$$Y = 77.8 \times 11 + 543.2$$

$$Y = 1399$$

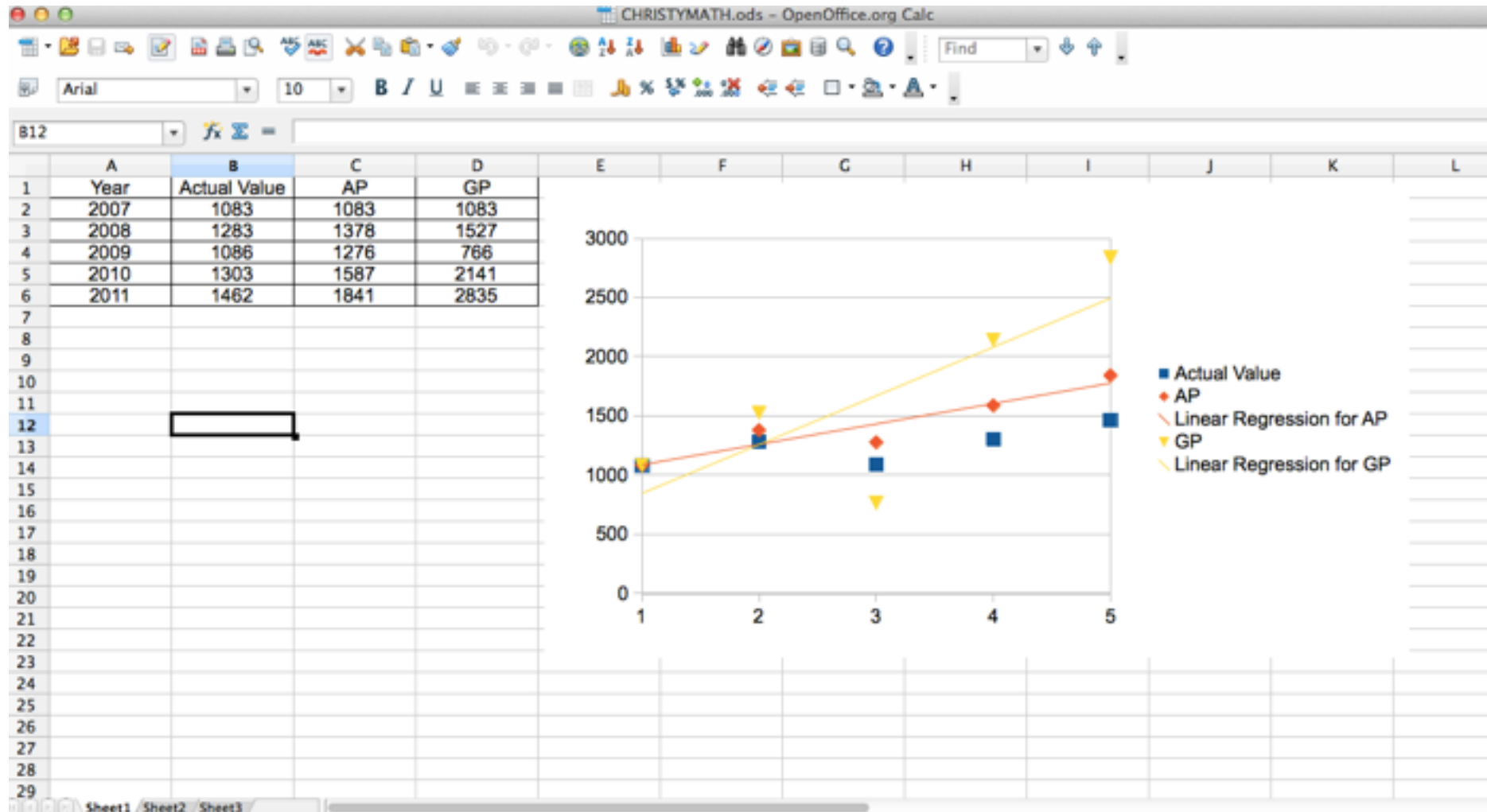
Year	Predicted	Actual	Percentage Error
2007	1087.8	1083	0.4432%
2008	1165.6	1283	-9.150%
2009	1243.4	1086	14.49%
2010	1321.2	1303	1.397%

Section 5

2007	2008	2009	2010	2011
1083	1283	1086	1303	1462



Section 6



Here is my Ap, and Gp graph. The graph shows that AP is more fit. Costco is a company that increased every year, although in 2009 Costco wasn't increase. But the next few years shows that Costco has started to build up their company.

conclusion

Costco is a company that you can join it, their data shows that they can increase their profits. Their Percentage Error shows that Costco can increase their profits each year and in the further. The graph shows this company is building up in each year. The data shows Costco can increase their profits in each year also the membership. So Costco is c a company that you can join it.



Bibliography

- "Costco Wholesale Corporation - AnnualReports.com." *Costco Wholesale Corporation - AnnualReports.com*. N.p., 14 May 2011. Web. 15 Jan. 2013.

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